

Fig. 1

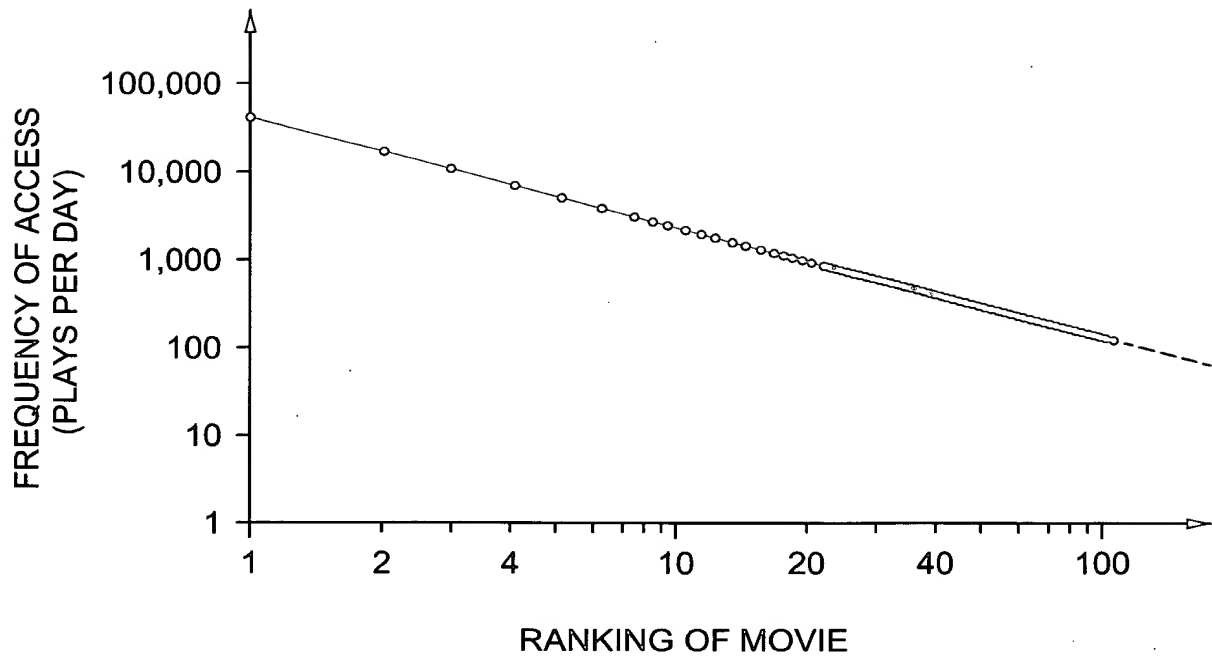


Fig. 2

MOVIE RANKING	DATA MOVER SET
1	SET 1 = {DM1, DM2, DM3}
2	SET 2 = {DM3, DM4}
3	SET 3 = {DM5}
4	SET 3 = {DM6}
5	SET 4 = {DM7}
6	SET 4 = {DM7}
7	SET 5 = {DM8}
8	SET 5 = {DM8}
⋮	⋮

Fig. 3

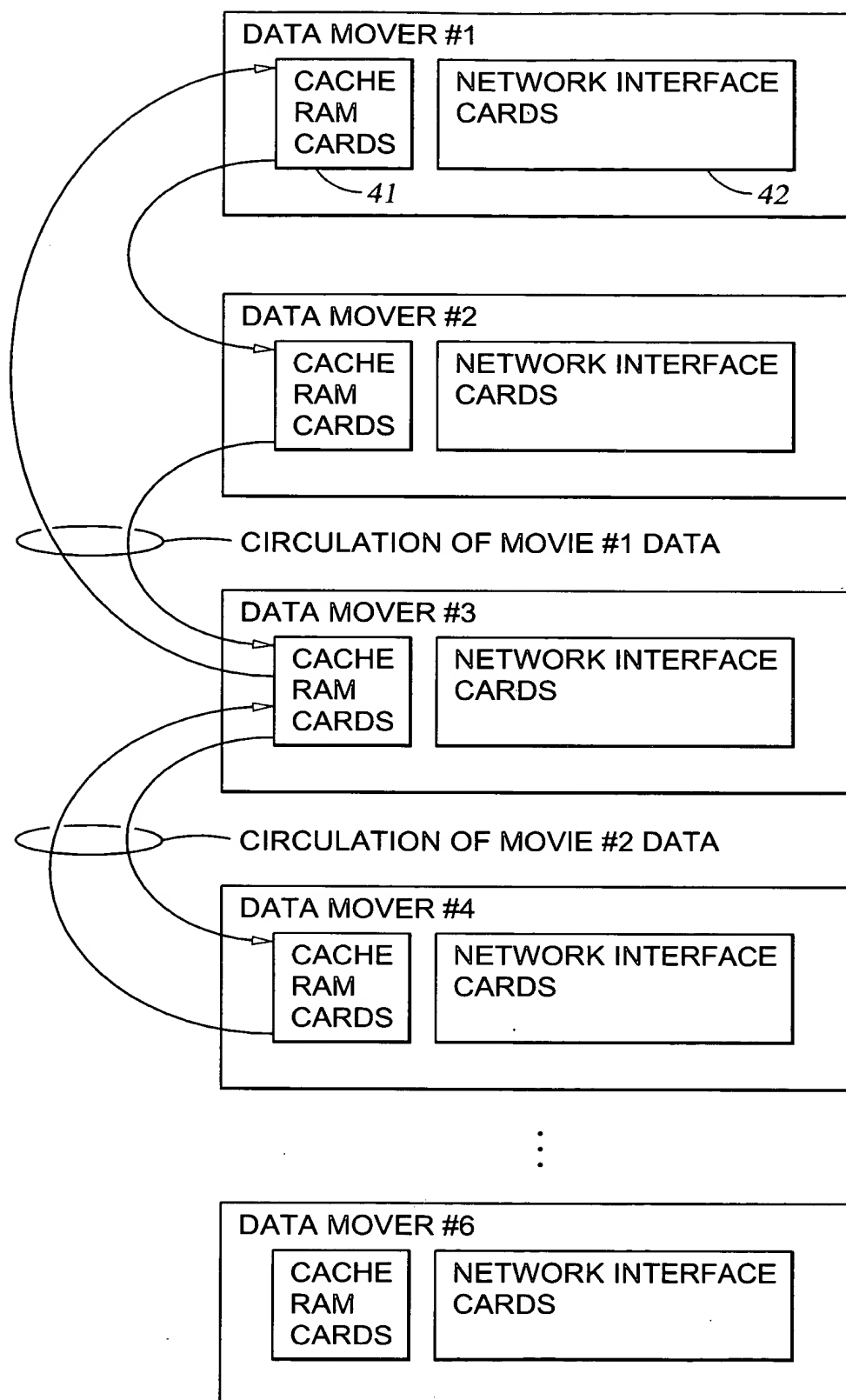


Fig. 4

MOVIE RANKING	MOVIE TITLE	FREQUENCY OF ACCESS	DATA MOVER SET	NO. OF RESERVED VIDEO STREAMS	NO. OF ACTIVE VIDEO STREAMS	LOCATION ON DISK	ANY LOCATION IN CACHE
1	---	25,000	1	5,000	3,497	---	---
2	---	11,000	2	2,200	1,738	---	---
3	---	7,900	3	1,580	2,300	---	---
4	---	6,900	3	1,380	790	---	---
5	---	4,000	4	800	570	---	---
6	---	2,600	4	520	640	---	---
7	---	2,300	4	460	198	---	---
8	---	2,000	4	400	340	---	---
9	---	1,700	5	340	270	---	---

Fig. 5

AVAILABLE STREAMS FROM  
DATA MOVER SET

RESERVED	NOT RESERVED
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ACTIVE	INACTIVE
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Fig. 6

# BANDWIDTH ON STORAGE SYSTEM BUS

BANDWIDTH FOR ACCESS OF MOVIES FROM PRIMARY CACHE	BANDWIDTH FOR ACCESS OF MOVIES FROM DISK	FREE BANDWIDTH
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Fig. 7

# PRIMARY CACHE MEMORY CAPACITY

CACHE LOCKED FOR ACCESS OF ENTIRE MOVIES IN CACHE	CACHE LOCKED FOR BUFFERING OF DISK ACCESS	FREE CACHE MEMORY
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Fig. 8

# PRIMARY CACHE LOCKED FOR ACCESS OF ENTIRE MOVIE IN CACHE

M1 t1	M2 t2	...	ML tL
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Fig. 9

AVAILABILITY OF MOVIE TITLES

SHOW AVAILABILITY OF THE MOVIE TITLED:  
\_\_\_\_\_ (MOVIE TITLE SUPPLIED BY CLIENT) \_\_\_\_\_

LISTING IN RANK ORDER OF ACCESS AT ANY TIME MOVIES WITH FULL VCR  
CAPABILITY

LISTING IN RANK ORDER OF MOVIES SCHEDULED TO START IN NEXT 15  
MINUTES

LISTING IN RANK ORDER OF MOVIES SCHEDULED TO START IN NEXT 30  
MINUTES

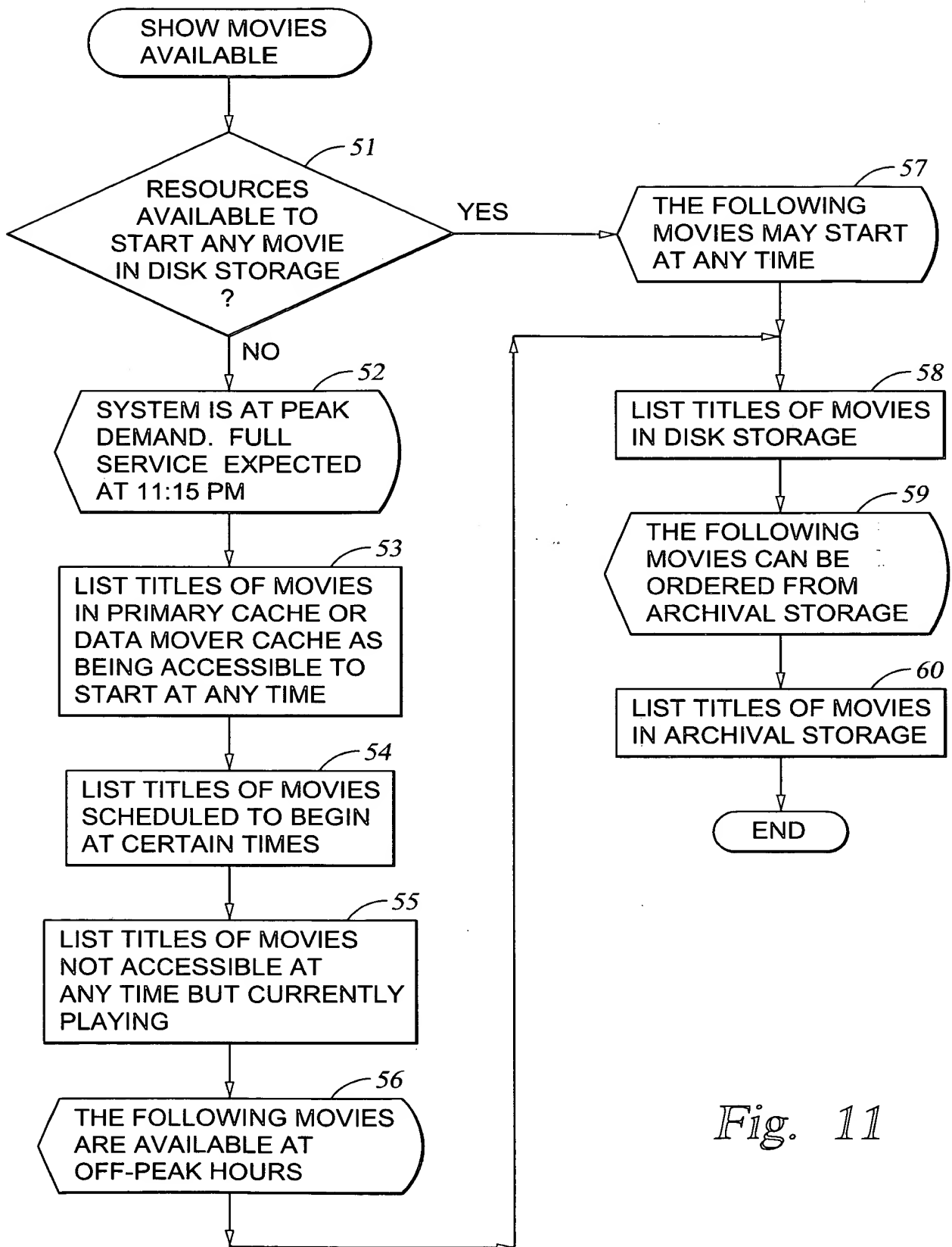
LISTING IN RANK ORDER OF MOVIES SCHEDULED TO START IN NEXT 105  
MINUTES

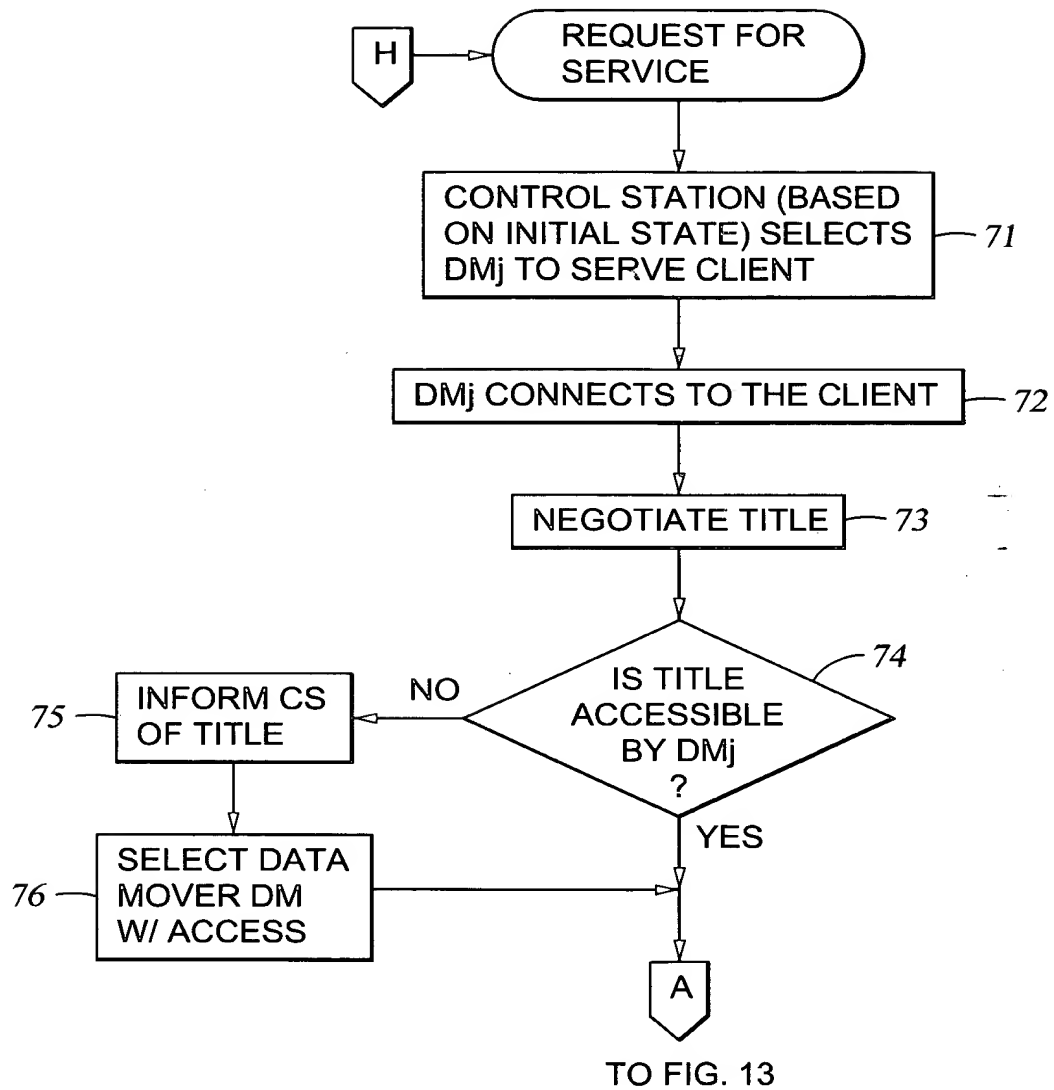
SHOW LISTING IN RANK ORDER OF MOVIES CURRENTLY PLAYING

SHOW LISTING OF OTHER MOVIE TITLES IN DISK STORAGE

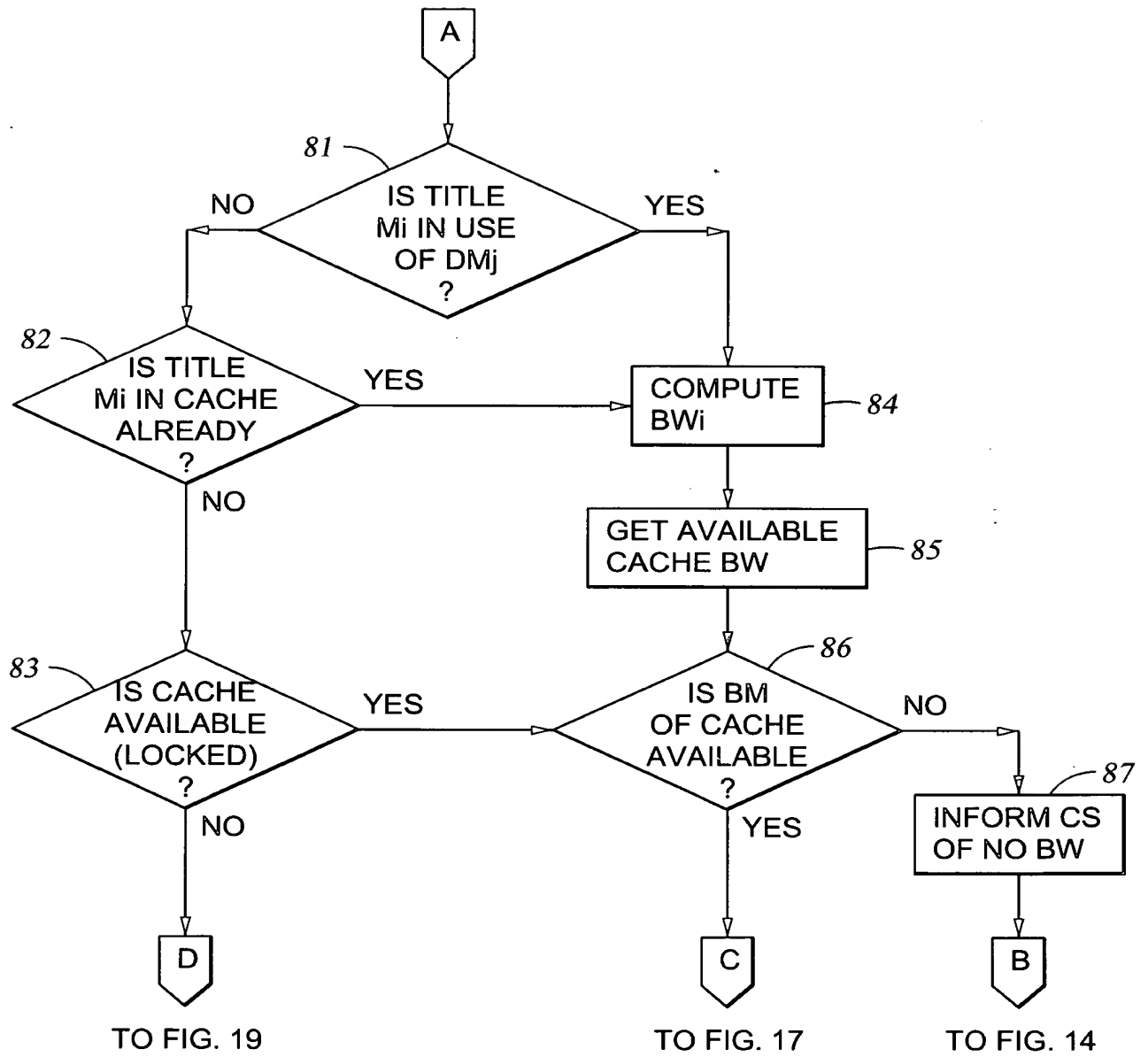
SHOW LISTING OF ALL MOVIE TITLES IN ARCHIVE STORAGE

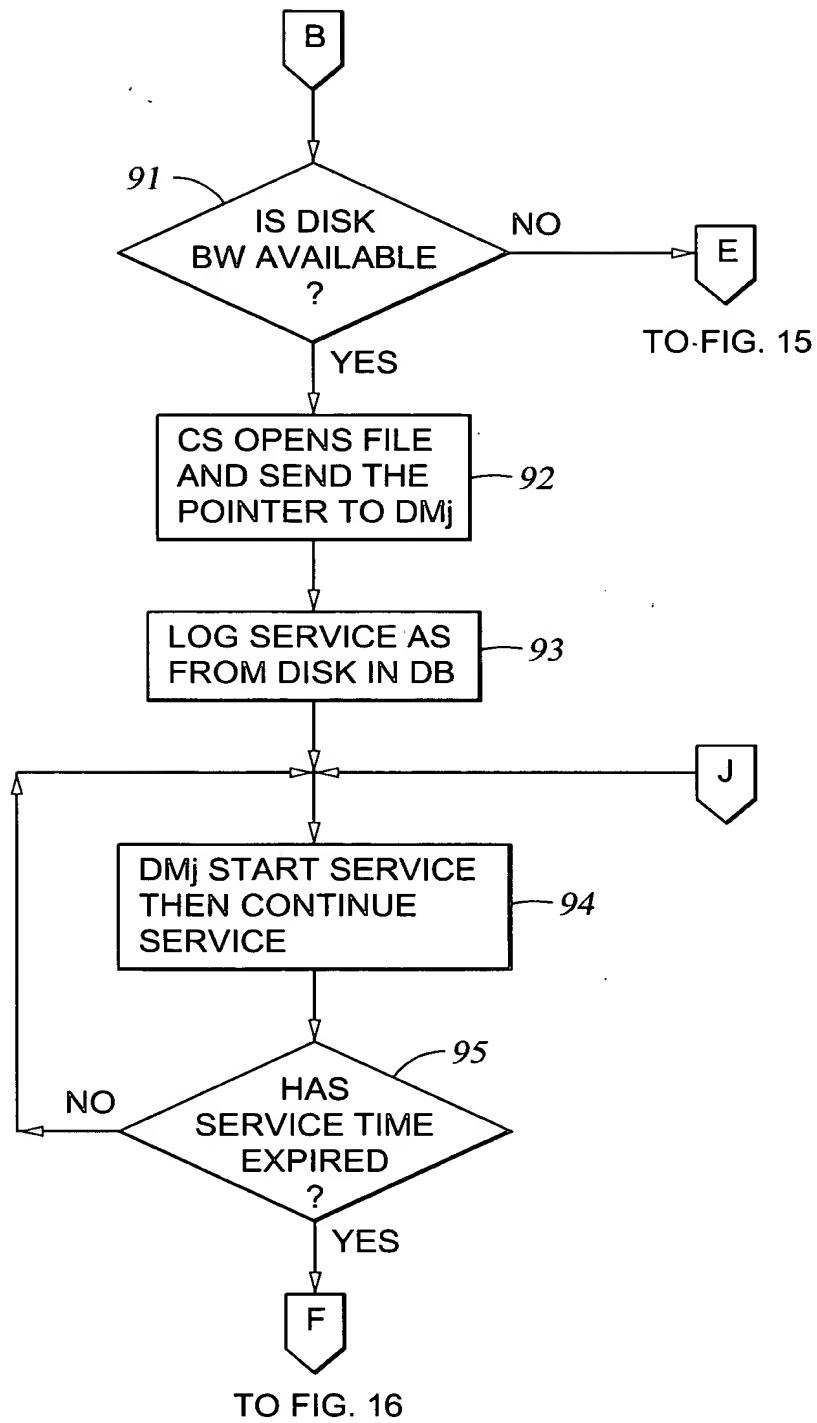
*Fig. 10*

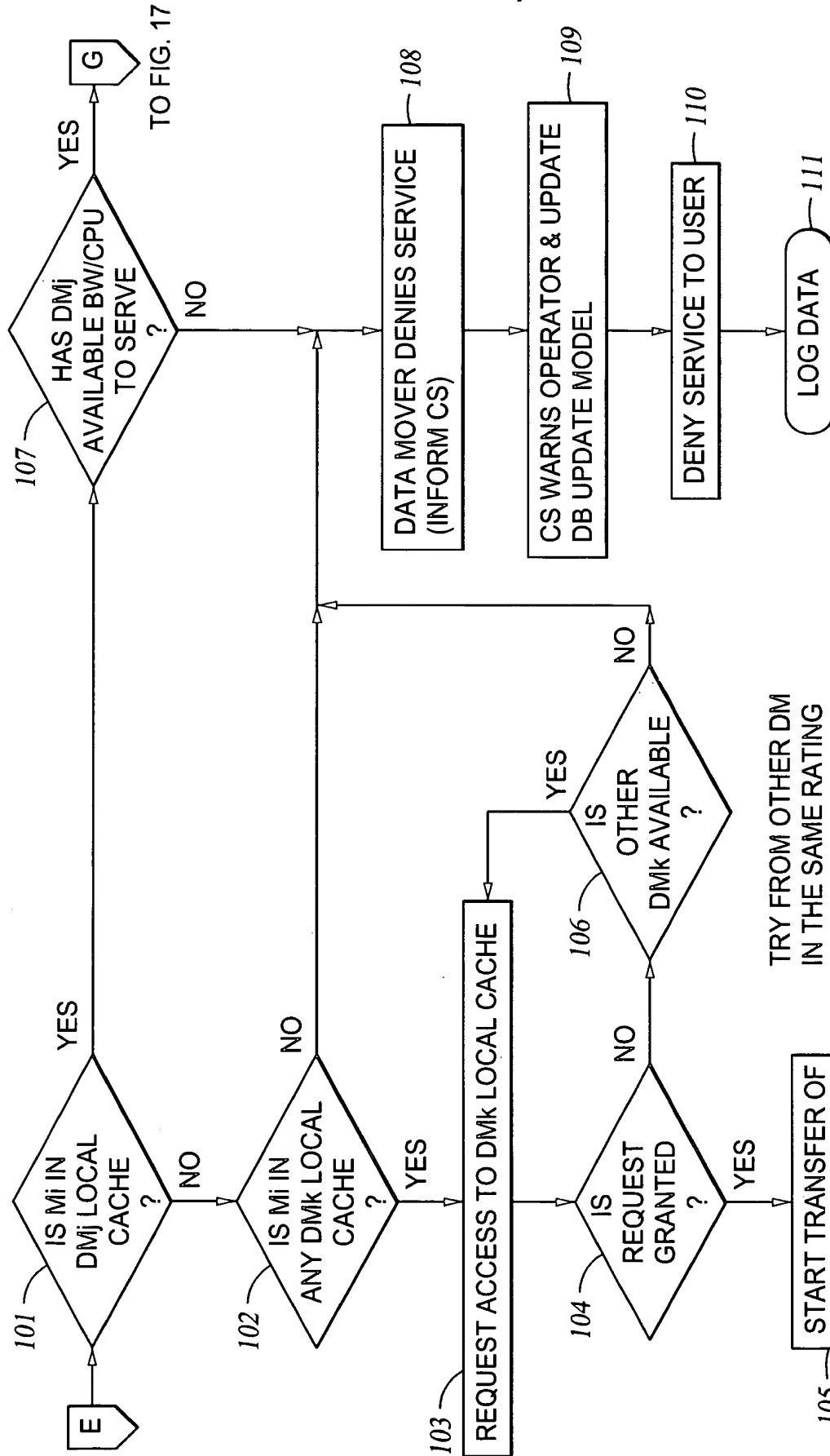
*Fig. 11*

*Fig. 12*



*Fig. 13*

*Fig. 14*



TRY FROM OTHER DM  
IN THE SAME RATING  
CLASS.

REJECTION CAN BE DUE  
TO Mi NOT IN DMk CACHE,  
OR DMk HAS NO BW OR  
CPU AVAILABLE

Fig. 15

Fig. 16

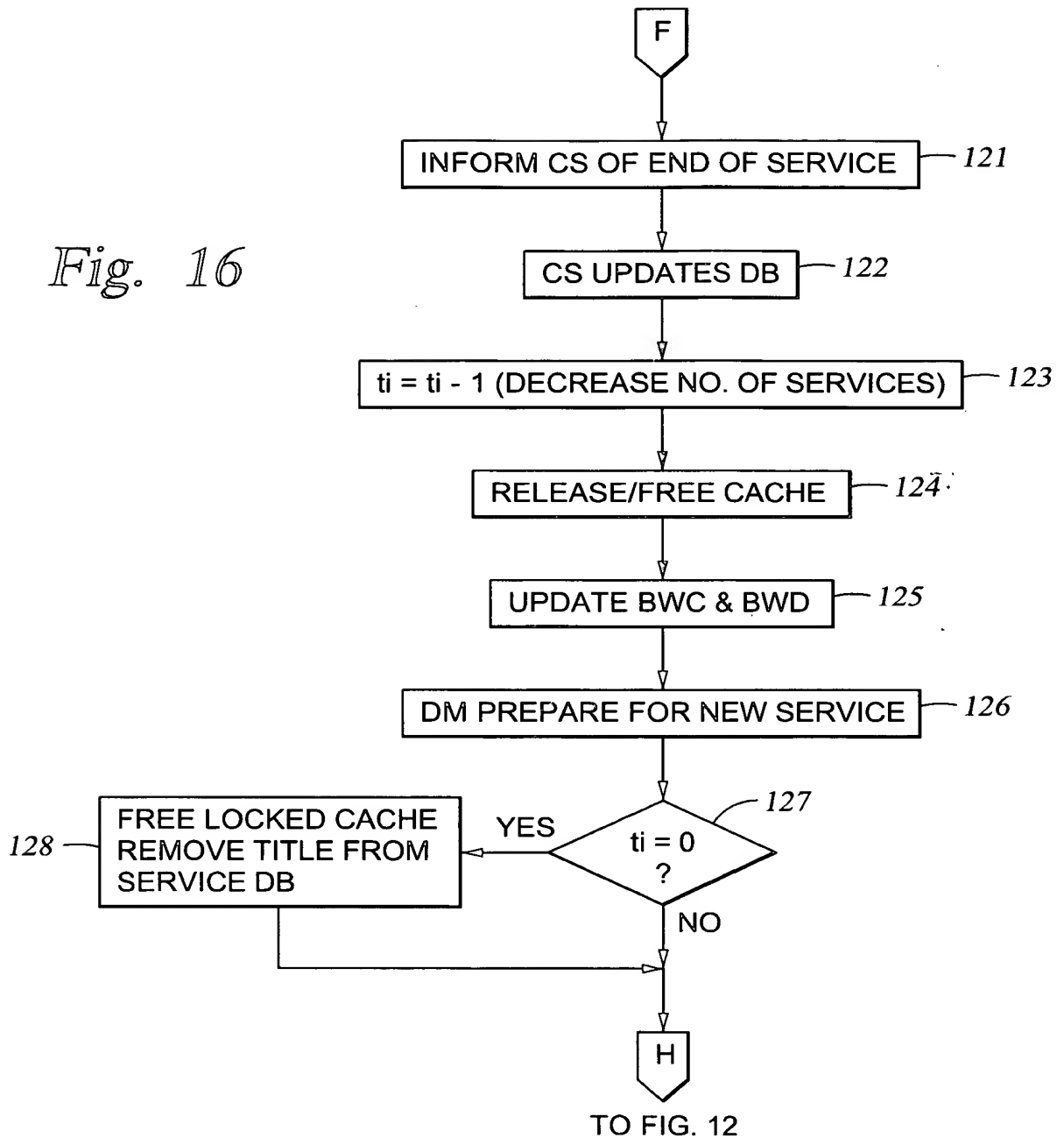
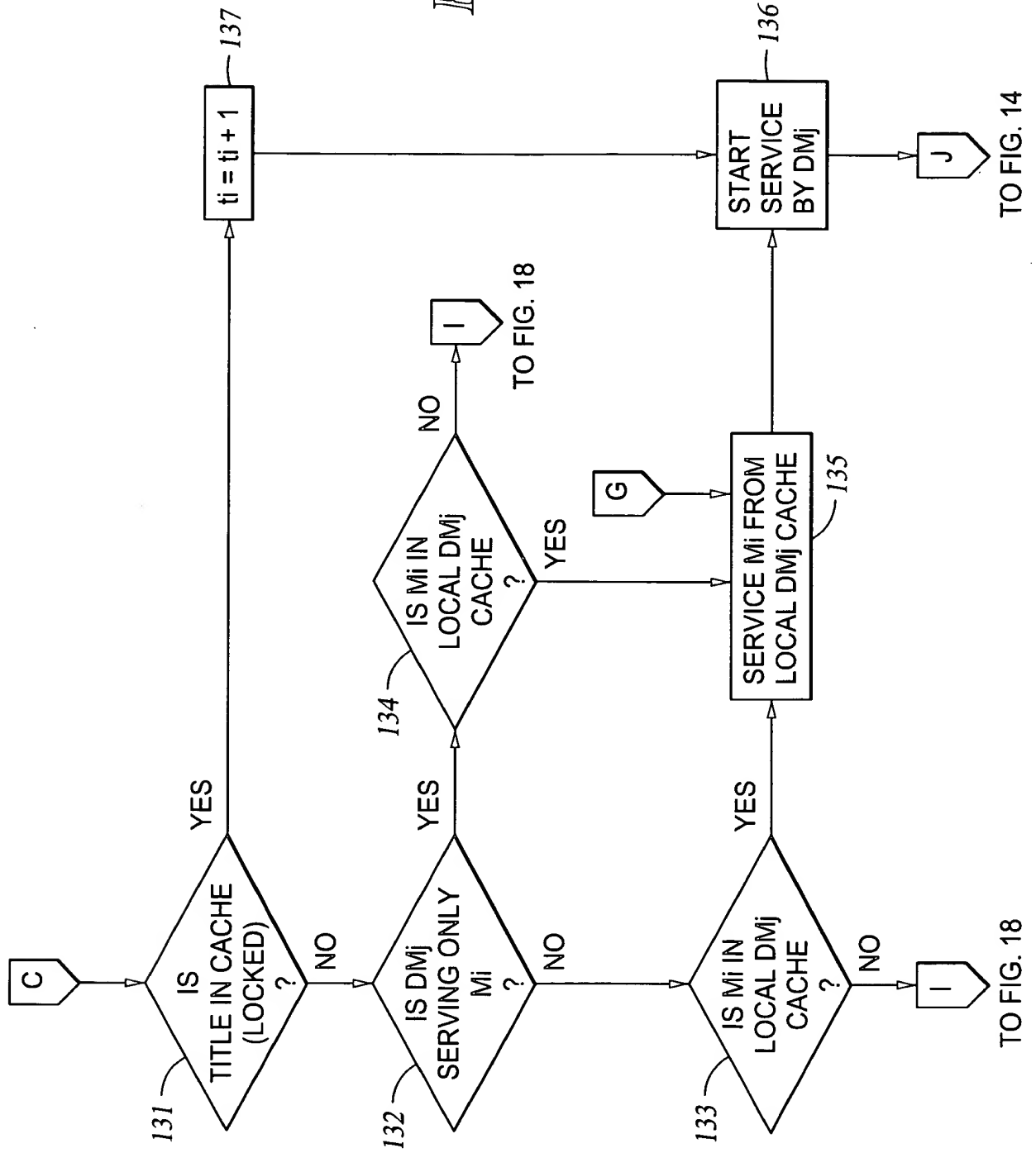
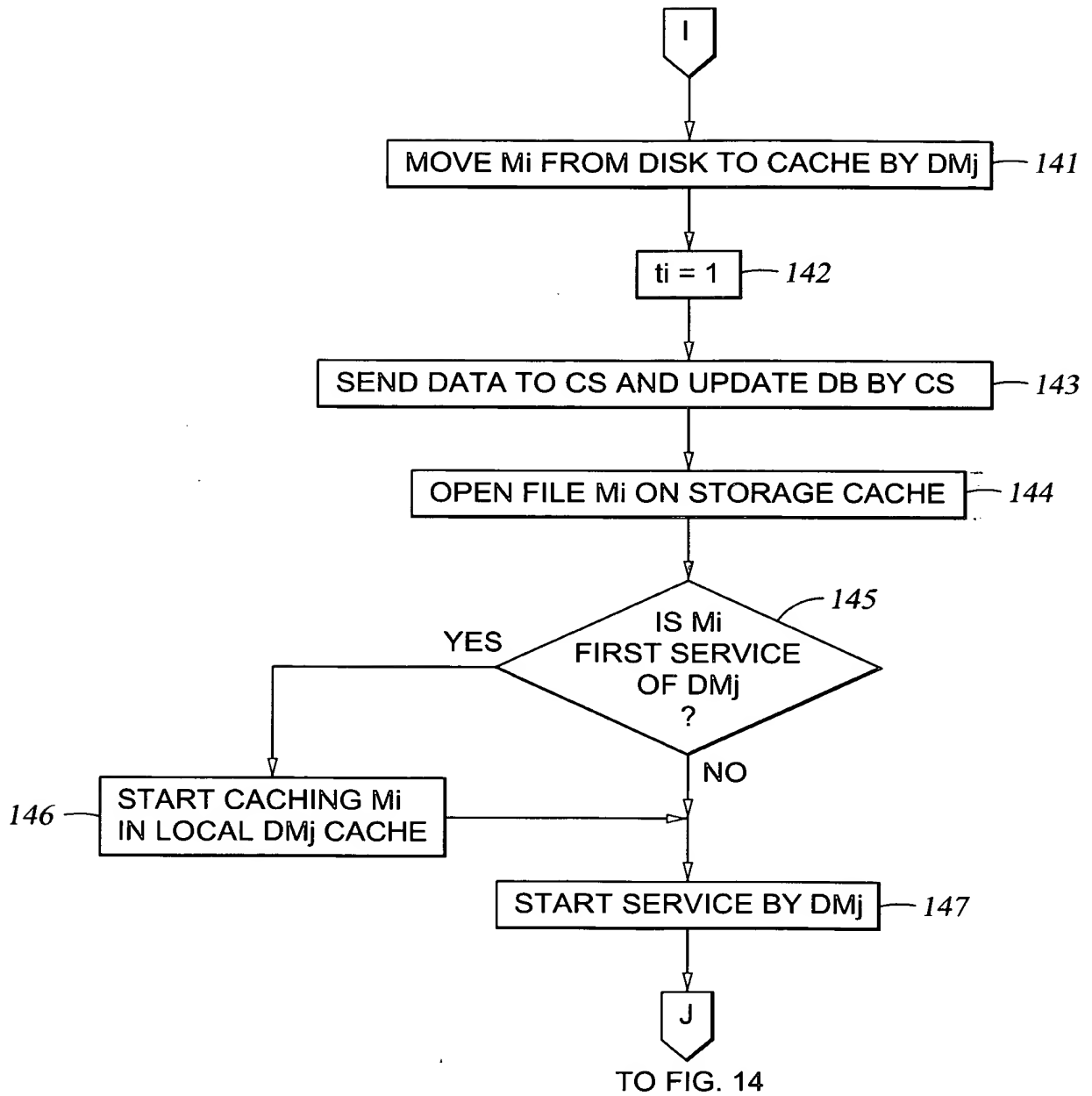


Fig. 17



*Fig. 18*

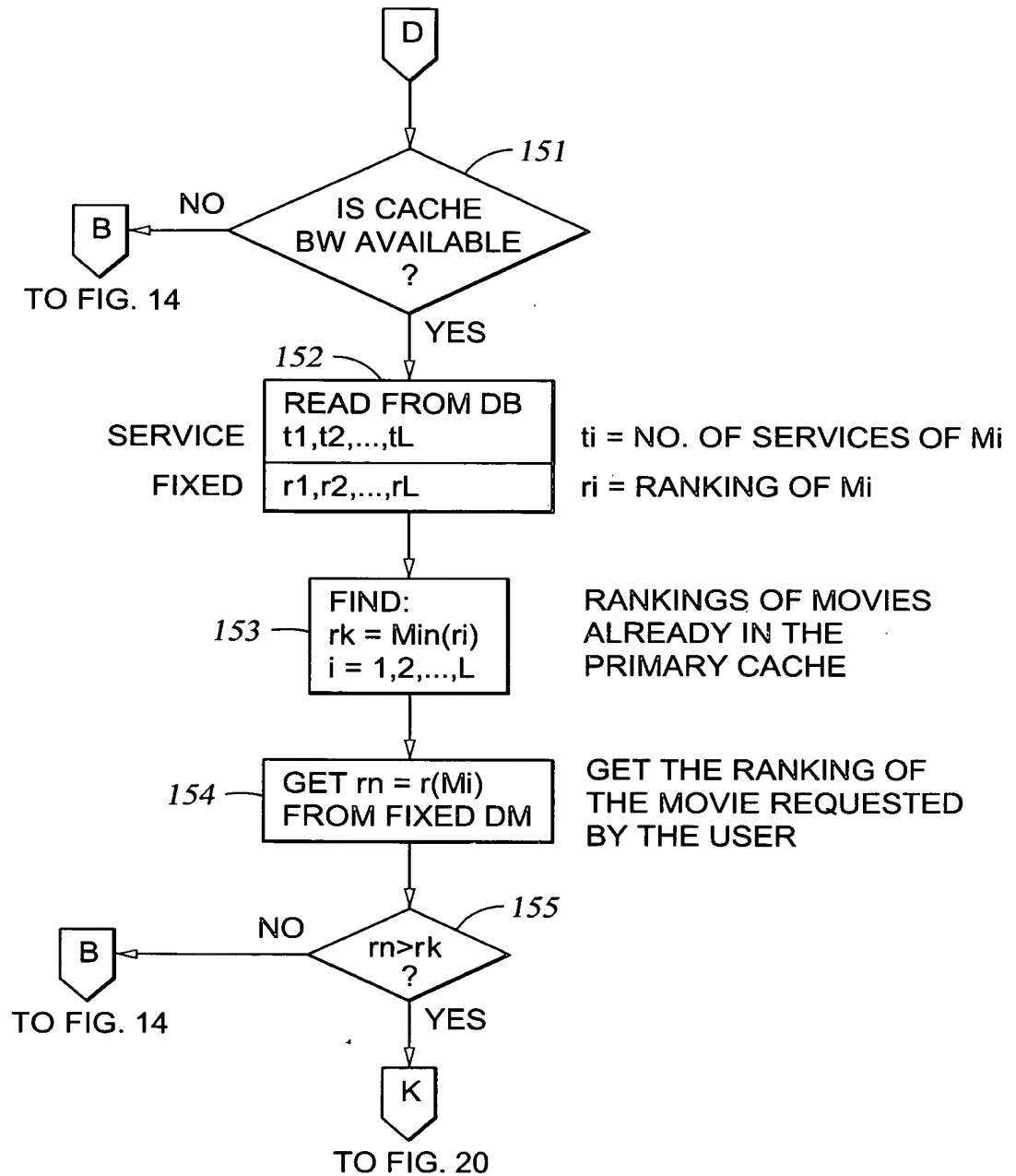


Fig. 19

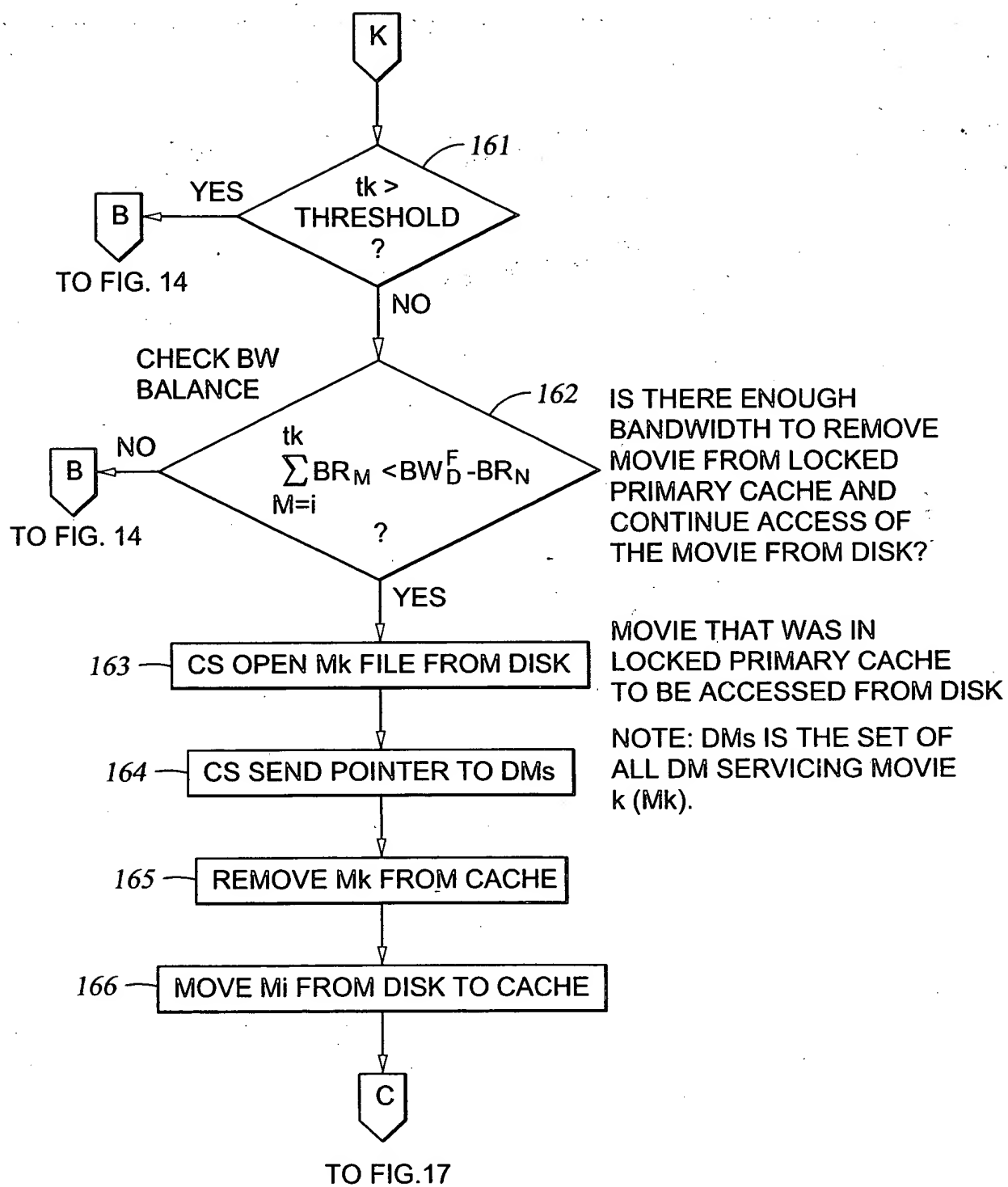


Fig. 20